



US Army Corps  
of Engineers®  
Engineer Research and  
Development Center

# Real Time Current Velocity System Demonstration

## Description

A joint proof of concept technology demonstration between the Corps of Engineers and towing industry has begun. This demonstration will establish the viability and utility of real time measurement and transmission of lock current data directly to approaching tows. The technology being demonstrated is Acoustic Doppler Current Profiler (ADCP) technology for measuring currents. This is combined with automated transmission of the information to tows during lock approach.



## Issue

Recent discussions between Corps of Engineers (USACE) and towing industry personnel indicate the desire for lock approach current information by tow pilots to increase safety.

## Users

Corps of Engineers' lock operators and the towing industry.

## Products

Contract Specification and Guidance manual for a RTCV System

## Benefits

The goal of the demonstration is to evaluate industry data needs for real time current information, establish the technological viability, and identify USACE and Industry issues.



## Corps Program

Navigation Systems Research Program, Mr. James E. Clausner, Program Manager

## Sponsors

Mobile District and Pittsburg District, USACE, and Ingram Barge Company

## Point of Contact

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## Partners

ERDC; Corps; Industry, USCG, USGS, NOAA, and State DOT agencies

